

INTV.010A



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kim, et al. )  
)  
App. No. : 10/092,375 )  
)  
Filed : March 5, 2002 )  
)  
For : SYSTEMS AND METHODS FOR )  
REFRESHING MACROBLOCKS )  
)  
Examiner : Unknown )  
)

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ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION  
AND  
REVOCATION AND POWER OF ATTORNEY

United States Patent and Trademark Office  
P.O. Box 2327  
Arlington, VA 22202

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventors to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the Inventors to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, Sixteenth Floor, Newport Beach, California 92660, Telephone (949) 760-0404, **Customer No. 20,995**, as its attorneys with full power of substitution and

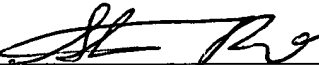
App. No. : 10,892,375  
Filed : March 5, 2002

revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use **Customer No. 20,995** for all communications.

INTERVIDEO, INC.

Dated: June 4, 2002

By: 

Title: President / CEO

Address: 47350 Fremont Blvd.  
Fremont, California 94538

MSO-2932.DOC:afa  
051702

Application No.: 10/092,375  
Filing Date: March 5, 2002

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**ASSIGNMENT**

**PATENT**  
Client Code: INTV.010A  
Page 1

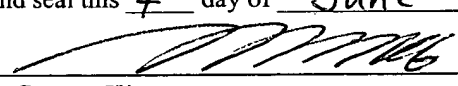
WHEREAS, We, Jin-Gyeong Kim, a South Korean citizen, residing at 2000 Walnut Ave., #F-208, Fremont, California 94538; JongWon Kim, a South Korean citizen, residing at Dongbu Apt 104-601, Wolgye-Dong, Gwangsan-Gu, GwangJu 506-769, South Korea; and Ioannis Katsavounidis, a Greek citizen, residing at 222 S. El Molino Ave. Apt. 7, Pasadena, California 91101, have invented certain new and useful improvements in a **SYSTEMS AND METHODS FOR REFRESHING MACROBLOCKS** for which we have filed an application for Letters Patent in the United States with Application No. 10/092,375, filed on March 5, 2002;

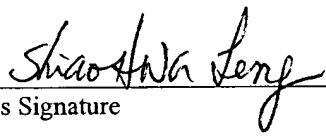
AND WHEREAS, Intervideo, Inc. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 47350 Fremont Blvd., Fremont, California 94538, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

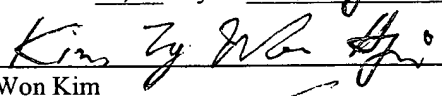
AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

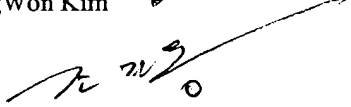
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4<sup>th</sup> day of June, 2002.

  
Jin-Gyeong Kim

  
Witness Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 24 day of May, 2002.

  
JongWon Kim

  
Witness Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 4<sup>th</sup> day of June, 2002.

Ioannis Katsavounidis

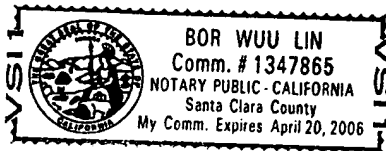
Ioannis Katsavounidis

STATE OF California }  
COUNTY OF Alameda } ss.

On 6-4-2002, before me, BOR WUU LIN, personally appeared Ioannis Katsavounidis personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



BOR WUU LIN

Notary Signature

## Appendix A

### Incorporation by Reference of Commonly Owned Applications

The following patent applications, commonly owned and filed on the same day as the present application, are hereby incorporated herein in their entirety by reference thereto:

Title	Application No.	Attorney Docket No.
SYSTEMS AND METHODS FOR ENHANCED ERROR CONCEALMENT IN A VIDEO DECODER		INTV.005A
SYSTEMS AND METHODS FOR DECODING OF PARTIALLY CORRUPTED REVERSIBLE VARIABLE LENGTH CODE (RVLC) INTRA-CODED MACROBLOCKS AND PARTIAL BLOCK DECODING OF CORRUPTED MACROBLOCKS IN A VIDEO DECODER		INTV.006A
SYSTEMS AND METHODS FOR DECODING OF SYSTEMATIC FORWARD ERROR CORRECTION (FEC) CODES OF SELECTED DATA IN A VIDEO BITSTREAM		INTV.007A
SYSTEMS AND METHODS FOR MANAGEMENT OF DATA IN A RING BUFFER FOR ERROR RESILIENT DECODING OF A VIDEO BITSTREAM		INTV.008A
SYSTEMS AND METHODS FOR REDUCING ERROR PROPAGATION IN A VIDEO DATA STREAM		INTV.009A
SYSTEMS AND METHODS FOR REDUCING FRAME RATES IN A VIDEO DATA STREAM		INTV.011A
SYSTEMS AND METHODS FOR PERFORMING GENERATING ERROR CORRECTION INFORMATION FOR A MEDIA STREAM		INTV.012A
SYSTEMS AND METHODS FOR		INTV.013A

Title	Application No.	Attorney Docket No.
PERFORMING BIT RATE ALLOCATION FOR A VIDEO DATA STREAM		
SYSTEMS AND METHODS FOR ENCODING REDUNDANT MOTION VECTORS IN COMPRESSED VIDEO BITSTREAMS		INTV.014A
SYSTEMS AND METHODS FOR DECODING REDUNDANT MOTION VECTORS IN COMPRESSED VIDEO BITSTREAMS		INTV.015A
SYSTEMS AND METHODS FOR DETECTING SCENE CHANGES IN A VIDEO DATA STREAM		INTV.016A

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